TRANSLATION PATENT COOPERATION TREATY POT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference			FOR FURTHER A	CTION	See Form PCT/IPEA/416		
PCG-9002WO International application No.			International filing da	te (daymonth(vear)	Priority date (day/month/year)		
	PCT/JP2004/013183 03.09.				04.09.2003		
L			onal classification and				
l	A61K39/395; A61P35/00, G01N33/574, 33/543, C07K16/18						
Applicant ABURI	Applicant ABURATANI, Hiroyuki						
	1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.						
2. T	his REPORT consis	ts of a total of	6	sheets, including	ng this cover sheet.		
3. T	his report is also acc	companied by A	NNEXES, comprising:				
a	a. (sent to th	e applicant and	to the International Bu	ureau) a total of	sheets, as follows:		
	sheet sheet	ts of the descrip	tion, claims and/or dra	wings which have been	amended and are the basis for this report and/or ule 70.16 and Section 607 of the Administrative		
		disclosure in the			nsiders contain an amendment that goes beyond in item 4 of Box No. I and the Supplemental		
) t	o. (sent to th	se International	Bureau only) a total of	(indicate type and numb	er of electronic carrier(s))		
	<u> </u>		•	•	containing a secure aligning and/or tables		
			readable form only, a rative Instructions).	s indicated in the Suppl	, containing a sequence listing and/or tables emental Box Relating to Sequence Listing (see		
4. T	This report contains i	ndications relati	ng to the following iter	ns:			
	Box No. I	Basis of the	report				
	Box No. II	Priority					
	Box No. III	Non-establi	shment of opinion with	h regard to novelty, inventive step and industrial applicability			
l [Box No. IV		y of invention				
	Box No. V	Reasoned st	-		elty, inventive step or industrial applicability;		
	Box No. VI	Certain doc	uments cited				
	Box No. VII	Certain defe	ects in the international	application			
Box No. VIII Certain observations on the international application							
Data of sub	omission of the dem	,					
Date of sur	onussion of the demi	and		Date of completion of the	uis report		
Name and	mailing address of t	he IPEA/JP		Authorized officer	-		
Facsimile 1	Nο			Telephone No			

Box No.	I Basis of the report							
	th regard to the language, this report is based on the internation in the internation of	onal application in the language in which it was filed, unless otherwise						
	This report is based on translations from the original langua which is the language of a translation furnished for the pur	· · · · · · · · · · · · · · · · · · ·						
	international search (Rule 12.3 and 23.1(b))							
	publication of the international application (Rule 12.4	4)						
	international preliminary examination (Rule 55.2 and	,						
rec	ceiving Office in response to an invitation under Article 14 a s report): 1	s report is based on (replacement sheets which have been furnished to the are referred to in this report as "originally filed" and are not annexed to						
	the international application as originally filed/furnished							
<u> </u>	the description:	an animala No. 100 No. 110 No.						
	pages	as originally filed/furnished						
	pages*							
	pages*	teceived by this Authority on						
L	the claims:							
	nos.	as originally filed/furnished						
	nos.*							
	nos.*							
 	1	received by this Authority on						
L	the drawings:							
	sheets	as originally filed/furnished						
	sheets*	received by this Authority on						
	shects*	received by this Authority on						
L	a sequence listing and/or any related table(s) – see Supplem	nental Box Relating to Sequence Listing.						
3.	The amendments have resulted in the cancellation of:							
	the description, pages							
	the claims, nos.							
	the drawings, sheets/figs							
	the sequence listing (specify):							
	any table(s) related to sequence listing (specify):							
4.	This report has been established as if (some of) the amen they have been considered to go beyond the disclosure as f	adments annexed to this report and listed below had not been made, since filed, as indicated in the Supplemental Box (Rule 70.2(c)).						
	the description, pages							
	the claims, nos.							
	the drawings, sheets/figs							
	the sequence listing (specify):							
* If i	tem 4 applies, some or all of those sheets may be marked "sup	perseded."						

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be in applicable have not been examined in respect of:	ndustrially			
the entire international application				
claims Nos. 12-13				
because:				
the said international application, or the said claims Nos. 12-13 relate to the following subject matter which does not require an international preliminary examination (specify):				
The inventions set forth in claims 12 to 13				
correspond either to a method for the treatment of the				
human body by means of therapy or to a diagnostic				
method for the human body (PCT Rule 67.1 (iv)).				
	:			
the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):				
ac so thereat that he meaningful opinion could be formed (specify).				
	!			
the claims, or said claims Nos. are so inadequately su	mported			
by the description that no meaningful opinion could be formed.	PPoster			
no international search report has been established for said claims Nos. 12-13				
the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Adm Instructions in that:	inistrative			
the written form has not been furnished				
does not comply with the standard				
the computer readable form has not been furnished				
does not comply with the standard				
the tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form only, do not compl technical requirements provided for in Annex C-bis of the Administrative Instructions.	y with the			
See Supplemental Box for further details.				

International application No.
PCT/JP2004/013183

Вох	ox No. v Reasoned statement under Article 35(2) with regard to noverty, inventive step or industrial applicability; citations and explanations supporting such statement						
1.	Statement						
	Novelty (N)	Claims	1-11	YES			
		Claims		NO			
	Inventive step (IS)	Claims		YES			
		Claims	1-11	NO			
	Industrial applicability (IA)	Claims	1-11	YES			
		Claims		NO			
I							

2. Citations and explanations (Rule 70.7)

The following documents are cited in the international search report.

Document 1: WO 03/000883 A1 (Chugai Pharmaceutical Co., Ltd.)

Document 2: Database Medline on STN, T. ROSKAMS et al.,

"Heparan sulphate proteoglycan expression in
human primary liver tumors," Journal of
Pathology, 1998, Vol. 185, No. 3, pages 290
to 297, abstract, Medline Accession No.
1998444445

Claims 1 to 6

Document 1 indicates that anti-glypican 3 antibodies exhibit an antibody dependent cell-mediated cytotoxicity activity or a compliment dependent cytotoxicity activity, and that anti-glypican 3 antibodies can be used as cancer cell proliferation inhibitors. Therein, document 1 further indicates that the cells are hepatic cancer cells, that the antibodies are monoclonal antibodies, and that said antibodies are also humanized antibodies or chimeric antibodies.

International application No.

PCT/JP2004/013183

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

The inventions that are set forth in the abovementioned claims involve bile duct cancer cells, and thus differ from the invention that is disclosed in document 1, which does not make any specific disclosures in relation to the feature in question. However, document 2 indicates that hepatic cancers, including both hepatocellular carcinomas as well as cholangiocarcinomas, have been found to express heparan sulfate proteoglycans such as glypican, and thus it would have been obvious to a person skilled in the art of the technical field in question to select bile duct cancer cells as the hepatic cancer cells and to use anti-glypican 3 antibodies in order to treat said cancer when implementing the invention that is disclosed in document 1.

In addition, the effects that result therefrom cannot be considered to be significant.

Claims 7 to 11

Document 1 suggests that it is possible to use glypican 3 as a marker for hepatocellular carcinomas (in particular, refer to page 2), while document 2 indicates that both hepatocellular carcinomas and cholangiocarcinomas include glypican and promote the expression of heparan sulfate proteoglycans. Such being the case, it would have been obvious to a person skilled in the art of the technical field in question to employ anti-glypican 3 antibodies in order to diagnose bile duct cancer.

In addition, the effects that result therefrom cannot be considered to be significant.

As a result, the inventions that are set forth in claims 1 to 11 are novel in relation to documents 1 and

Box	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement														
	2,	but	do	not	inv	volve	an	inver	ntive	step	in	the	light	of	
	the	do	cume	ents	in	ques	tion	٦.							

特許協力条約

今後の手続きについては、様式PCT/IPEA/416を参照すること。

PCT

特許性に関する国際予備報告(特許協力条約第二章)

(法第 12 条、法施行規則第 56 条) [PCT36 条及びPCT規則 70]

出願人又は代理人 の書類記号 PCG-9002W0

REC'D	15	SEP	2005
WIPO			PCT

国際出願番号 PCT/JP2004/013183	国際出願日 (日. 月. 年) 03. 09. 2004	優先日 (日.月.年) 04.09.2003						
国際特許分類(I P C)Int.Cl. ⁷	61K 39/395, A61P 35/00, G01N 33/574, 33/5	543, CO7K 16/18						
出願人(氏名又は名称) 油谷 浩幸								
この報告番は、PCT35条に基づきこの国際予備審査機関で作成された国際予備審査報告である。 法施行規則第57条(PCT36条)の規定に従い送付する。 この国際予備審査報告は、この表紙を含めて全部で								
3. この報告には次の附属物件も添付され a.								
「 補正されて、この報告の基 囲及び/又は図面の用紙(礎とされた及び/又はこの国際予備審査機 P C T 規則 70. 16 及び実施細則第 607 号参	関が認めた訂正を含む明細書、請求の範 K)						
第 I 欄 4. 及び補充欄に示したように、出願時における国際出願の開示の範囲を超えた補正を含むものとこの 国際予備審査機関が認定した差替え用紙								
b. 「 電子媒体は全部で (電子媒体の種類、数を示す)。 配列表に関する補充欄に示すように、コンピュータ読み取り可能な形式による配列表又は配列表に関連するテー ブルを含む。(実施細則第 802 号参照)								
4. この国際予備審査報告は、次の内容を含む。 ▼ 第 I 欄 国際予備審査報告の基礎								

	•	
国際予備審査の請求書を受理した日 12.10.2004	国際予備審査報告を作成した日 01.09.2005	
名称及びあて先	特許庁審査官(権限のある職員) 4 C 5	261
日本国特許庁 (I PEA/JP) 郵便番号100-8915	八原 由美子	
東京都千代田区設が関三丁目4番3号	電話番号 03-3581-1101 内線 345	2

第Ⅲ欄 新規性、進歩性又は産業上の利用可能性についての国際予備審査報告の不作成

▽ 第V欄 PCT35条(2)に規定する新規性、進歩性又は産業上の利用可能性についての見解、それを裏付

第Ⅱ栅 優先権

第IV欄 発明の単一性の欠如

第VI欄 ある種の引用文献 第VII欄 国際出願の不備 第VII欄 国際出願に対する意見

けるための文献及び説明

国際出願番号 PCT/JP2004/013183

第I欄	第1欄 報告の基礎					
	_ ======	マ 性体をおおたり て	コルニナ担人を除くほか	、国際出願の言語を基礎と	- 1.7÷.	
			語による翻訳文を		·	
ľ	- -	は、次の目的で提出	された翻訳文の言語であ 23.1(b)にいう国際調査	୍		
· ˈ		PCT規則12.4にい	う国際公開			
ſ			55.3にいう国際予備審査			
2. د	の報告	おは下記の出願皆類を	を基礎とした。(法第69	(PCT14条) の規定に	基づく命令に応答するために提出され	
た差替	え用剤	氏は、この報告におり	いて「出願時」とし、この)報告に添付していない。	'	
V	出	願時の国際出願書類				
Г	明	細書 .				
	***		ページ、	出願時に提出されたもの		
	第				付けで国際予備審査機関が受理したもの 付けで国際予備審査機関が受理したもの	
•	第	<u> </u>			刊りて国際「開番互成内で又在したしい	
Г	請	求の範囲	_			
	第			出願時に提出されたもの ・、PCT19条の規定に基	いたからはできれたもの	
	415	•	項:	k.	付けで国際予備番金機関か気埋したもの	
	第			k,	付けで国際予備審査機関が受理したもの	
					1	
,	図	面 :	ページ/図	、出願時に提出されたもの		
	死	·	ページ/図	* 、	付けで国際で頒布宜成例が文母したもの	
		§	ページ/図	*,	付けで国際予備審査機関が受理したもの	
Г		 2列表又は関連するラ	ープル		-	
'	EL		前充欄を参照すること。			
	•	•		•		
з. Г	補	正により、下記の書	類が削除された。		,	
	_	明細書	第		ページ	
	Ė	請求の範囲	第		項	
		図面	第		ページ/図	
	<u> </u>	を 配列表 (具体的に 配列表に 関連 する)	こ配取すること) 6テープル(具体的に記載	ナー・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・		
	,	图1778年7号))	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ì	
_				・・・エムナトかっしてにこ	・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・	
4.	- こ ネ	.の報告は、補充欄に てされたものと認め	1示したように、この報告 うられるので、その補正が	rに孫行されがつめ下に小 されなかったものとして(した補正が出願時における開示の範囲を超 作成した。(PCT規則 70.2(c))	
	_				ページ	
1	-	が 明細費 でいます できます かいまま できまる できまる できまる できまる かいかい かいかい かいかい かい かい かい かい かい かい かい かい	第 笆		• •	
1	i i	図面	第		ページ/図	
		配列表(具体的)	こ記載すること)			
1	Г	配列表に関連する	5テーブル(具体的に記録	はすること)		
					•	
1						
+ 4	. に	亥当する場合、その	用紙に"superseded"と	犯入されることがある。		
			,			

特許性に関する国際予備報告

国際出願番号 PCT/JP2004/013183

第Ⅲ	閥 新規性、進歩性又は産業上の利用可能性についての見解の不作成
	次に関して、当該請求の範囲に記載されている発明の新規性、進歩性又は産業上の利用可能性につき、次の理由により 審査しない。
Г	国際出願全体
V	請求の範囲 12-13
理由	: この国際出願又は請求の範囲 12-13 は、国際予備審査をすることを要しない 次の事項を内容としている(具体的に記載すること)。 請求の範囲12-13に記載のものは、治療による人体の処置方法、及び、人体の診断方法に該当する(PCT規則
	67. 1(iv)),
Г	明細書、請求の範囲若しくは図面(次に示す部分)又は請求の範囲
•	記載が、不明確であるため、見解を示すことができない(具体的に記載すること)。
Ċ	·
	Attraction の
Γ	全部の請求の範囲又は請求の範囲
 □	請求の範囲 12-13 について、国際調査報告が作成されていない。
F	ヌクレオチド又はアミノ酸の配列表が、実施細則の附属書C (塩基配列又はアミノ酸配列を含む明細書等の作成のためのガイドライン) に定める基準を、次の点で満たしていない。
	春面による配列表が
	コンピュータ説み取り可能な形式による配列表が
-	' コンピュータ読み取り可能な形式によるヌクレオチド又はアミノ酸の配列表に関連するテーブルが、実施細則の附属各 Cの2に定める技術的な要件を、次の点で満たしていない。
	□ 提出されていない。 □ 所定の技術的な要件を満たしていない。
	詳細については補充欄を参照すること。

国際出願番号 PCT/JP2004/013183

	進歩性又は産業上の利用可能性 そ付ける文献及び説明	:についての法第 12 条(P C T 35 条 (2))に定める見解、 	
1. 見解			
新規性(N)		1-11	有 無
進歩性(I:	詩求の範囲 請求の範囲	1-11	有 無
産業上の利り	用可能性(I A) 請求の範囲 請求の範囲	•	·有 無

2. 文献及び説明 (PCT規則 70.7)

国際調査報告において、以下の文献が提示された。

文献1:WO 03/000883 A1 (中外製薬株式会社)

文献 2: Database Medline on STN, Roskams T et al., Heparan sulphate proteoglycan expression in human primary liver tumors, Journal of pathology, 1998, Vol. 185, No. 3, p. 290-297, abstract, Medline Accession no. 1998444445

請求の範囲1-6に対して

文献1には、抗グリピカン3抗体が、抗体依存性細胞傷害活性、または、補体依存性細胞傷害活性を有し、癌細胞増殖抑制剤として用い得ることが記載されている。同文献には、さらに、細胞が肝癌細胞であること、抗体がモノクローナル抗体であること、抗体がヒト化またはキメラ化されたのものである点についても記載されている。

上記請求の範囲に記載の発明においては、胆管癌細胞である点で、その明示のない 文献1に記載の発明と相違するが、文献2には、肝臓癌である、肝細胞癌も、胆管細 胞癌も、ともに、グリピカン等の、ヘパラン硫酸プロテオグリカンの発現が見られる ことが記載されており、文献1に記載の発明において、肝癌細胞として、胆管癌を選 択し、抗グリピカン3抗体を、該癌の治療用途に用いることは、当該分野の専門家に とって自明である。

そして、その効果も格別なものとは認められない。

請求の範囲7-11に対して

文献1には、グリピカン3について肝細胞癌マーカとして利用できる可能性が示唆されており(特に、第2頁参照のこと)、かつ、文献2には、肝細胞癌においても、胆管細胞癌においても、ともに、グリピカンを含む、ヘパラン硫酸プロテオグリカンの発現が亢進していることが示されているから、抗グリピカン3抗体を、胆管癌の診断の用途に用いることは当該分野の専門家にとって自明である。

そして、その効果も格別なものとは認められない。

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特許性に関する国際予備報告

国際出願番号 PCT/JP2004/013183

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7.1	, =	œ	*1	ш

いずれかの欄の大きさが足りない場合

第 V.2 欄の続き

したがって、請求の範囲1-11に記載のものは、文献1,2に対して、新規性は有するが、進歩性を有さない。

様式PCT/IPEA/409 (補充欄) (2004年1月)

TRANSLATION PATENT COOPERATION TREATY POT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

l ••	or agent's file refer 9002WO	ence	FOR FURTHER A	CTION	See Form PCT/IPEA/416						
	al application No.	_	International filing da	te (daymonth/vear)	Priority date (day/month/year)						
	JP2004/01	3183	03.09.200		04.09.2003						
International Patent Classification (IPC) or national classification and IPC											
A61K39/395; A61P35/00, G01N33/574, 33/543, C07K16/18											
Applicant ABURATANI, Hiroyuki											
1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.											
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3. T	his report is also ac	companied by A	NNEXES, comprising:								
a	a. (sent to ti	he applicant and	to the International Bu	ureau) a total of	sheets, as follows:						
	a. (sent to the applicant and to the International Bureau) a total of sheets, as follows: sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).										
	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.										
] t	b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s))										
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	, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).										
4. T	his report contains	indications relati	ng to the following iter	ns:							
	Box No. I	Basis of the	report								
	Box No. II	Priority									
	Box No. III	Non-establi	shment of opinion with	n regard to novelty, inventive step and industrial applicability							
l [Box No. IV		ty of invention								
	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement										
	Box No. VI Certain documents cited										
	Box No. VII Certain defects in the international application										
	Box No. VII										
Date of submission of the demand Date of completion of this report											
Date of sur	Judssion of the dem	ano		Date of completion of the	nis report						
Name and	mailing address of t	he IPEA/JP		Authorized officer							
Facsimile No.				Telephone No.							

		===, =======								
Box No. 1	Basis of the report	<u> </u>								
	h regard to the language, this report is based on the internatio cated under this item.	onal application in the language in which it was filed, unless otherwise								
	This report is based on translations from the original language into the following language which is the language of a translation furnished for the purposes of:									
	international search (Rule 12.3 and 23.1(b))									
	publication of the international application (Rule 12.4)									
	international preliminary examination (Rule 55.2 and/or 55.3)									
rece	eiving Office in response to an invitation under Article 14 ar report):	s report is based on (replacement sheets which have been furnished to the re referred to in this report as "originally filed" and are not annexed to								
	the international application as originally filed/furnished									
	the description:									
	pages	as originally filed/furnished								
	pages*									
	pages*	received by this Authority on								
	the claims:									
	nos.	as originally filed/furnished								
	nos.*									
	nos.*									
<u> </u>	nos.*	received by this Authority on								
	the drawings:									
	sheets	as originally filed/furnished								
	sheets*	received by this Authority on								
	sheets*	received by this Authority on								
	a sequence listing and/or any related table(s) - see Supplement	nental Box Relating to Sequence Listing.								
3.	The amendments have resulted in the cancellation of:									
	the description, pages									
	the claims, nos.									
	the drawings, sheets/figs									
	the sequence listing (specify):									
	any table(s) related to sequence listing (specify):									
4.	This report has been established as if (some of) the amend they have been considered to go beyond the disclosure as fi	dments annexed to this report and listed below had not been made, since iled, as indicated in the Supplemental Box (Rule 70.2(c)).								
	the description, pages									
	the drawings, sheets/figs									
	the sequence listing (specify):									
	any table(s) related to sequence listing (specify):									
* If it	em 4 applies, some or all of those sheets may be marked "sup									

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability											
The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:											
the entire international application											
claims Nos. 12-13											
because:											
1	the said international application, or the said claims Nos. 12-13 relate to the following subject matter which does not require an international preliminary examination (specify):										
The inv	entions set forth in claims 12 to 13										
correspond ei	ther to a method for the treatment of the										
	means of therapy or to a diagnostic										
method for the	e human body (PCT Rule 67.1 (iv)).										
<u>-</u>	wings (indicate particular elements below) or said claims Nos.										
are so uncrear that no meaning	grui opinion coma de formea (specify):										
the claims, or said claims Nos	and an inches and a control of										
,	s are so inadequately supported aningful opinion could be formed.										
no international search report	has been established for said claims Nos. 12-13										
the nucleotide and/or amino a Instructions in that:	acid sequence listing does not comply with the standard provided for in Annex C of the Administrative										
the written form	has not been furnished										
	does not comply with the standard										
the computer readable form	has not been furnished										
_	does not comply with the standard										
	eotide and/or amino acid sequence listing, if in computer readable form only, do not comply with the led for in Annex C-bis of the Administrative Instructions.										
See Supplemental Box for fur	rther details.										

International application No.
PCT/JP2004/013183

Вох			pporting such statement	
1.	Statement			
	Novelty (N)	Claims	1-11	YES
		Claims		NO
Inventive step (IS)		Claims		YES
		Claims	1-11	NO
	Industrial applicability (IA)	Claims	1-11	YES
		Claims		NO
I				

2. Citations and explanations (Rule 70.7)

The following documents are cited in the international search report.

Document 1: WO 03/000883 A1 (Chugai Pharmaceutical Co., Ltd.)

Document 2: Database Medline on STN, T. ROSKAMS et al.,

"Heparan sulphate proteoglycan expression in
human primary liver tumors," Journal of
Pathology, 1998, Vol. 185, No. 3, pages 290
to 297, abstract, Medline Accession No.
1998444445

Claims 1 to 6

Document 1 indicates that anti-glypican 3 antibodies exhibit an antibody dependent cell-mediated cytotoxicity activity or a compliment dependent cytotoxicity activity, and that anti-glypican 3 antibodies can be used as cancer cell proliferation inhibitors. Therein, document 1 further indicates that the cells are hepatic cancer cells, that the antibodies are monoclonal antibodies, and that said antibodies are also humanized antibodies or chimeric antibodies.

International application No.

PCT/JP2004/013183

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

The inventions that are set forth in the abovementioned claims involve bile duct cancer cells, and thus differ from the invention that is disclosed in document 1, which does not make any specific disclosures in relation to the feature in question. However, document 2 indicates that hepatic cancers, including both hepatocellular carcinomas as well as cholangiocarcinomas, have been found to express heparan sulfate proteoglycans such as glypican, and thus it would have been obvious to a person skilled in the art of the technical field in question to select bile duct cancer cells as the hepatic cancer cells and to use anti-glypican 3 antibodies in order to treat said cancer when implementing the invention that is disclosed in document 1.

In addition, the effects that result therefrom cannot be considered to be significant.

Claims 7 to 11

Document 1 suggests that it is possible to use glypican 3 as a marker for hepatocellular carcinomas (in particular, refer to page 2), while document 2 indicates that both hepatocellular carcinomas and cholangiocarcinomas include glypican and promote the expression of heparan sulfate proteoglycans. Such being the case, it would have been obvious to a person skilled in the art of the technical field in question to employ anti-glypican 3 antibodies in order to diagnose bile duct cancer.

In addition, the effects that result therefrom cannot be considered to be significant.

As a result, the inventions that are set forth in claims 1 to 11 are novel in relation to documents 1 and

Box	No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement													
	2,	but	do	not	inv	volve	an	inver	ntive	step	in	the	light	of	
	the	do	cume	ents	in	ques	tion	٦.							
															: